

Statement of Basis

for the DRAFT CAAPP Permit for:

Source Name

Sterling Steel Company, LLC

Statement of Basis No.: 96010019-2012/11

I.D. No.: 195818AAI

Permit No.: 96010019

Date Prepared: November 20, 2012

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705

This Statement of Basis is being provided to USEPA and any interested parties as required by Section 39.5(8)(b) of the Illinois Environmental Protection Act.

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PREFACE

Reason For This Document

This document is a requirement of the permitting authority in accordance with 502(a) of the Clean Air Act, 40 CFR 70.7(a)(5), and Section 39.5(8)(b) of the Illinois Environmental Protection Act. Section 39.5(8)(b) of the Illinois Environmental Protection Act states the following:

"The Agency shall prepare a statement that sets forth the legal and factual basis for the draft CAAPP permit conditions, including references to the applicable statutory or regulatory provisions."

Purpose Of This Document

The purpose of this Statement of Basis is to provide discussion regarding the development of this Draft CAAPP Permit. This document would also provide the permitting authority, the public, the source, and the USEPA with the applicability and technical matters that form the basis of the Draft CAAPP Permit.

Summary Of Historical Actions Leading Up To Today's Permitting Action

Since the last renewal CAAPP Permit issued on 09/10/2003, the administrative amendment was processed 02/04/2004.

Limitations

This Statement of Basis is not enforceable and only sets forth the legal and factual basis for the Draft CAAPP Permit Conditions (Chapters I and II). Chapter III contains supplemental material that would assist in educating interested parties about this source and the Draft CAAPP Permit. The Statement of Basis does not shield the source from enforcement actions or its responsibility to comply with existing or future applicable regulations nor does the Statement of Basis constitute a defense to a violation of the Federal Clean Air Act or the Illinois Environmental Protection Act including implementing regulations.

This document does not purport to establish policy or guidance.

INTRODUCTION

The Clean Air Act Permit Program (CAAPP) is the operating permit program established in Illinois for major stationary sources as required by Title V of the federal Clean Air Act and Section 39.5 of the Illinois Environmental Protection Act. The Title V Permit Program (CAAPP) is the primary mechanism to apply the various air pollution control requirements established by the Clean Air Act to major sources, defined in accordance with Title V of the Clean Air Act. The Draft CAAPP Permit contains conditions identifying the state and federal applicable requirements that apply to the source. The Draft CAAPP Permit also establishes the necessary monitoring and compliance demonstrations. The source must implement this monitoring to demonstrate that the source is operating in accordance with the applicable requirements of the permit. The Draft CAAPP Permit identifies all applicable requirements for the various emission units as well as establishes detailed provisions for testing, monitoring, recordkeeping, and reporting to demonstrate compliance with the Clean Air Act. Further explanations of the specific provisions of the Draft CAAPP Permit are contained in the following Chapters of this Statement of Basis.

In addition, the Illinois EPA has committed substantial resources and effort in the development of an acceptable Statement of Basis (this document) that would meet the expectations of USEPA, Region 5. As a result, this document contains discussions that address applicability determinations, periodic monitoring, streamlining, prompt reporting, and SSM authorizations (as necessary). These discussions involve, where necessary, a brief description and justification for the resulting conditions and terms in this Draft CAAPP Permit. This document begins by discussing the legal basis for the contents of the Draft CAAPP Permit, moves into the factual description of the permit and ends with supplemental information that has been provided to further assist with the understanding of the background and genesis of the permit content.

It is Illinois EPA's preliminary determination that this source's Permit Application meets the standards for issuance of a "Final" CAAPP Permit as stipulated in Section 39.5(10)(a) of the Illinois Environmental Protection Act (see Chapter I - Section 1.2 of this document). The Illinois EPA is therefore initiating the necessary procedural requirements to issue a Final CAAPP Permit. The Illinois EPA has posted the Draft CAAPP permit and this Statement of Basis on USEPA website:

<http://www.epa.gov/reg5oair/permits/ilonline.html>

CHAPTER I - LEGAL BASIS FOR THE PERMIT AND PERMIT CONDITIONS

I.2 Legal Basis for Program

The Illinois EPA's state operating permit program for major sources established to meet the requirements of 40 CFR Part 70 are found at Section 39.5 of the Illinois Environmental Protection Act [415 ILCS 5/39.5]. The program is called the Clean Air Act Permitting Program (CAAPP). The underlying statutory authority is found in the Illinois Environmental Protection Act at 415 ILCS 5/39.5. The CAAPP was given final full approval by USEPA on December 4, 2001 (see 66 FR 62946).

1.2 Legal Basis for Issuance of CAAPP Permit

In accordance with Section 39.5(10)(a) of the Illinois Environmental Protection Act, the Illinois EPA may only issue a CAAPP Permit if all of the following standards for issuance have been met:

- I. The applicant has submitted a complete and certified application for a permit, permit modification, or permit renewal consistent with Sections 39.5(5) and (14) of the Illinois Environmental Protection Act, as applicable, and applicable regulations (Section a. below);
- II. The applicant has submitted with its complete application an approvable compliance plan, including a schedule for achieving compliance, consistent with Section 39.5(5) of the Illinois Environmental Protection Act and applicable regulations (Section b. below);
- III. The applicant has timely paid the fees required pursuant to Section 39.5(18) of the Illinois Environmental Protection Act and applicable regulations (Section c. below); and
- IV. The applicant has provided any additional information as requested by the Illinois EPA (Section d. below).

a. Application Status

The source submitted an application for a renewal CAAPP permit on 11/26/2007. The source is currently operating under its current CAAPP permit with an application shield. This draft CAAPP permit addresses application content and necessary revisions to meet the requirements for issuance of the permit.

b. Present Compliance Status

At the time of this Draft CAAPP Permit, there were no pending State or Federal enforcement actions against the source; therefore, a Compliance Schedule is not required for this source. The source submitted an approvable Compliance Plan as part of its Certified Permit Application. The source has certified compliance with all applicable rules and regulations. In addition, the draft permit requires the source to certify its compliance status on an annual basis.

c. Payment of Fees

The source is current on payment of all fees associated with operation of the emission units.

d. Additional Information

The source was not required to submit any additional application material.

1.3 Legal Basis for Conditions in the CAAPP Permit

This industrial source is subject to a variety of Federal and SIP regulations, which are the legal basis for the conditions in this permit (see Sections (a) and (b) below). Also, the CAAPP provides the legal basis for additional requirements such as periodic monitoring, reporting and recordkeeping. The following list summarizes those regulations that form the legal basis for the conditions in this Draft CAAPP and are provided in the permit itself as the origin and authority.

a. Applicable Federal Regulations

This source operates the emission units that are subject to the following federal regulations:

- 40 CFR 60 Subpart AAa
- 40 CFR 63 Subpart YYYYY
- 40 CFR 63 Subpart CCCCCC
- 40 CFR 64 Compliance Assurance Monitoring (CAM)

b. Applicable SIP Regulations

This source operates the emission units that are subject to the following SIP regulations:

- 35 IAC Part 201 - Permits And General Provisions
- 35 IAC Part 212 - Visible And Particulate Matter Emissions
- 35 IAC Part 214 - Sulfur Limitations
- 35 IAC Part 215 - Organic Material Emission Standards
- 35 IAC Part 244 - Episodes
- 35 IAC Part 254 - Annual Emissions Report

c. Other Applicable Requirements

Other applicable requirements are originated from the state construction permits issued for this source.

CHAPTER II - FACTUAL BASIS FOR THE PERMIT AND PERMIT CONDITIONS

2.1 Source History

There is no significant source history warranting discussion for this source.

2.2 Description of Source

SIC Code: 3312, Steel Works and Rolling Mills
County: Whiteside

The source manufactures semi-finished billets and finished rods. The manufacturing process involves the melting of recycled scrap metal into semi-finished steel and rolling it into finished products.

The source contains the following processes:

<i>Emission Units</i>	<i>Description</i>
Electric Arc Furnace (EAF)	EAF #8 melts recycled scrap metal and other raw materials into molten steel with electric arcs from carbon electrodes.
EAF Dust Handling System	Baghouse dust is pneumatically transferred from the baghouse to a filter/receiver on the top of the silo. From a silo, dust is unloaded into a truck.
Ladle Metallurgy Facility (LMF)	Molten steel is transported by ladle to the LMF from the EAF for purposes of refinement for final chemistries.
Casting Operations	Molten steel is transported to the caster tundish and after leaving the tundish it enters water-cooled copper molds where molten steel is molded into semi-finished shapes.
12" Mill Reheat Furnace	Produces hot billets for rolling mill.
Miscellaneous Fuel Combustion Process Emission Units	Miscellaneous natural gas-fired torches, preheaters and cutters.
EAF Storage Silos and Material Handling Operations	Lime and carbon silos are used to support operations of EAF.
Cold Cleaning Degreasers	Degreasing and cleaning metal parts.
Gasoline Storage Tank	On site gasoline storage and dispensing.
Miscellaneous VOM emitting activities	Miscellaneous solvent cleaning usage and ladle refractory lining material usage.
EAF #8 Main Cooling Tower	Processing cooling water.

2.3 Single Source Status

The source is considered a single source with Stein Steel Mill Services, I.D. No. 195050AHN, located at 610 Wallace Street, Sterling, IL, which is performing a support function for Steling Steel.

Under both 40 CFR 52.21(b)(5) and Section 39.5 of the Illinois Environmental Protection Act, different sources can be "aggregated" and considered a single stationary source for PSD and Title V operating permit purposes. They can be considered a single stationary source if they (1) belong to the same industrial grouping or operate as a support facility, (2) are located on contiguous or adjacent properties, and (3) are under common control/ownership.

2.4 Ambient Air Quality Status for the Area

Stein Steel Mill Services The source is located in an area that as of the date of permit issuance designated attainment or unclassifiable for the National Ambient Air Quality Standards for all criteria pollutants (carbon monoxide, lead, nitrogen dioxide, ozone, PM_{2.5}, PM₁₀, sulfur dioxide). (See 40 CFR Part 81 - Designation of Areas for Air Quality Planning Purposes)

2.5 Source Status

The source requires a CAAPP permit because this source is considered major (based on its PTE) for the following regulated pollutants: PM₁₀, PM_{2.5}, nitrogen oxides (NO_x), volatile organic material (VOM), carbon monoxide (CO), and sulfur dioxide (SO₂). This source is also a natural minor for hazardous air pollutants (HAPs) and greenhouse gases (GHG's)

2.6 Annual Emissions

The following table lists annual emissions (tons) of criteria pollutants for this source, as reported in the Annual Emission Reports (AER) sent to the Illinois EPA:

<i>Pollutant</i>	2010	2009	2008	2007	2006
CO	1,367.41	1,167.21	1,427.34	1,244.33	1,176.01
NOx	290.37	245.58	294.21	270.93	257.71
PM	118.41	101.61	124.30	108.35	102.27
SO ₂	194.98	158.66	194.29	168.77	159.44
VOM	101.58	86.17	105.68	92.83	86.69
CO _{2E}	1,891.28	1,685.55	1,894.87	1,794.51	----
HAP (total)					

2.7 Fee Schedule

The following table lists the approved annual fee schedule (tons) submitted in the Source's permit application:

Pollutant	Fee Schedule (tons)
NOx	687.29
PM	543.00
SO ₂	358.39
VOM	209.58
HAP (total)	----
Total	1,798.26

2.8 SIP Permit Facts (T1 Limits)

CAAPP Permits must address all "applicable requirements," which includes the terms and conditions of preconstruction permits issued under regulations approved by USEPA in accordance with Title I of the CAA (See definition of applicable requirements in Section 39.5(1) of the Illinois Environmental Protection Act). Preconstruction permits, commonly referred to in Illinois as Construction Permits, derive from the New Source Review ("NSR") permit programs required by Title I of the CAA. These programs include the two major NSR permit programs: (1) the Prevention of Significant Deterioration ("PSD") program¹ and (2) the nonattainment NSR program.² These programs also encompass state construction permit programs for projects that are not major.

In the CAAPP or Illinois's Title V permit program, the Illinois EPA's practice is to identify requirements that are carried over from an earlier Title I permit into a New or Renewed CAAPP Permit as "TI" conditions (i.e., Title I conditions). Title I Conditions that are revised as part of their incorporation into a CAAPP Permit are further designated as "TIR." Title I Conditions that are newly established through a CAAPP Permit are designated as "TIN." It is important that Title I Conditions be identified in a CAAPP Permit because these conditions will not expire when the CAAPP

Permit expires. Because the underlying authority for Title I Conditions comes from Title I of the CAA and their initial establishment in Title I Permits, the effectiveness of T1 Conditions derives from Title I of the CAA rather than being linked to Title V of the A. For "changes" to be made to Title I Conditions, they must either cease to be applicable based on obvious circumstances, e.g., the subject emission unit is permanently shut down, or appropriate Title I procedures must be followed to change the conditions.

Previously Incorporated Construction Permits		
Permit No.	Date Issued	Subject
00020018	09/05/2000	EAF #8
00050081	09/05/2000	EAF Dust Handling System
00100084	12/08/2000	Cooling Tower for EAF #8
94110109	01/30/1995	LMF #2

Newly Incorporated Construction Permits		
Permit No.	Date Issued	Subject
05020083	10/06/2007	EAF Reduced Air Flow

Construction Permits not Being Incorporated		
Permit No.	Date Issued	Subject/Reasoning for not incorporation
01030022 (obsolete)	07/11/2001	22" Rolling Mill: was never constructed
06020079 (obsolete)	05/25/2006	Oxygen Enrichment of Reheat Furnace: the furnace had never been modified
10070054 (obsolete)	09/30/2010	Engine generator: was never constructed

The Illinois EPA has established T1R limits in this Draft CAAPP permit (see Condition 4.3(2)(b)(i)(B)). PM annual emissions have been lowered to reflect much lower annual steel production rate.

Obsolete T1 conditions for the source associated with the construction permits in the table above not being incorporated into this Draft CAAPP permit.

CHAPTER III - SUPPLEMENTAL DISCUSSIONS REGARDING THE PERMIT

The information provided in this Chapter of the Statement of Basis is being provided to assist interested parties in understanding what additional information may have been relied on to support this draft CAAPP permit.

3.1 Environmental Justice Discussions

This location has not been identified as a potential concern for Environmental Justice consideration.

3.2 Emission Testing Results

The last tests have been conducted on EAF #8 in 2008 (March 3, 9 and 15) by measuring concentration of PM emissions in the baghouse exhaust under reduced air flow rates. These tests have demonstrated compliance with applicable PM emission standard.

3.3 Compliance Reports (Annual Certifications, Semiannual Monitoring, NESHAP, etc.)

A review of the source's compliance reports demonstrates the source's ability to comply with all applicable requirements.

3.4 Field Inspection Results

A review of the source's latest field inspection reports demonstrates the source's ability to comply with all applicable regulatory and CAAPP requirements. Last inspections had been conducted on January 11, 2011.

3.5 Historical Non-Compliance

The latest available data indicates that the Illinois EPA had issued a Violation Notice (A-2004-00189) to the source 06/29/2004. This VN was primarily focused on the several aspects of non-compliance with certain requirements of 40 CFR 60 Subpart AAa. These issues have been resolved and no further IEPA enforcement actions generated.

3.6 Source Wide Justifications and Rationale

Applicable Requirements Summary		
<i>Applicable Requirement</i>	<i>Type</i>	<i>Location</i>
Visible fugitive emissions beyond the property line	35 IAC 212.301 and 212.314	See the Permit, Condition 3.1(a)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 3.1(a))
 - o Daily visible observations shall be performed upon request from IEPA
- ✓ Recordkeeping as follows (Condition 3.1(a)):
 - o Records of this observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this source because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- Emissions are considered negligible

Non-Applicability Discussion

Complex source-wide non-applicability determinations were not made for this source.

Prompt Reporting Discussion

Prompt reporting of deviations for source wide emission units has been established as 30 days. See rationale in Chapter III Section 9.

3.7 Emission Unit Justifications and Rational

a. Electric Arc Furnace (EAF)		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (40 CFR 60.272a(a)(2))	Standard	See the Permit, Condition 4.1(2)(a)
Opacity (40 CFR 60.272a(a)(3))	Standard	See the Permit, Condition 4.1(2)(a)
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.1(2)(a)
PM (40 CFR 60.272(a)(1) and 40 CFR 63.10686(b)(1))	Standard	See the Permit, Condition 4.1(2)(b)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.1(2)(b)
PM (T1)	Limit	See the Permit, Condition 4.1(2)(b)
NOx (T1)	Limit	See the Permit, Condition 4.1(2)(c)
SO ₂ (35 IAC 214.301)	Standard	See the Permit, Condition 4.1(2)(d)
SO ₂ (T1)	Limit	See the Permit, Condition 4.1(2)(d)
CO (T1)	Limit	See the Permit, Condition 4.1(2)(e)
VOM (T1)	Limit	See the Permit, Condition 4.1(2)(f)
Lead (T1)	Limit	See the Permit, Condition 4.1(2)(g)
Operational and Production (T1)	Limit	See the Permit, Condition 4.1(2)(h)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.1(2)(a)(ii)(A) through (D)):
 - o Daily opacity observations from a baghouse by using Method 9
 - o Daily opacity observations from melt shop by using Method 9
 - o Monthly operational inspections of equipment
 - o Once-per-shift recording of fan motor amperes and damper position
- ✓ Recordkeeping as follows (Condition 4.1(2)(a)(ii)(E) and (F)):
 - o Records of shop opacity observations
 - o Records of baghouse opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Monitoring is consistent with other sources in this source category.
- These monitoring requirements established by 40 CFR 60 Subpart AAa

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.1(2)(b)(ii)):
 - o Monthly operational inspections of equipment
 - o Once-per-shift recording of fan motor amperes and damper position
 - o Annual evaluation of stack test results
 - o PM tests are scheduled based on the margin of compliance of the most recent tests
- ✓ Recordkeeping as follows (Condition 4.1(2)(b)(ii)):
 - o Records of monthly operational inspections
 - o Stack tests performed
 - o Records of stack test evaluation and margins of compliance achieved

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Inspection and monitoring requirements established by 40 CFR 60 Subpart AAa
- Monitoring is consistent with other sources in this source category
- Testing schedules based on the "margin of compliance approach" provide clear path in establishing the frequencies of the required tests

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.1(2)(c)(ii)):
 - Annual evaluation of stack test results
 - SO₂ tests are scheduled based on the margin of compliance of the most recent tests
- ✓ Recordkeeping as follows (Condition 4.1(2)(c)(ii)):
 - Stack tests performed
 - Records of stack test evaluation and margins of compliance achieved
 - Records of SO₂ emission factors derived from the tests
 - Records of SO₂ emissions

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Testing schedules based on the "margin of compliance approach" provide clear path in the establishing the frequencies of the required tests

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.1(2)(e)(ii)):
 - Annual evaluation of stack test results
 - CO tests are scheduled based on the margin of compliance of the most recent tests
- ✓ Recordkeeping as follows (Condition 4.1(2)(e)(ii)):
 - Stack tests performed
 - Records of stack test evaluation and margins of compliance achieved
 - Records of CO emission factors derived from the tests
 - Records of CO emissions

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Testing schedules based on the "margin of compliance approach" provide clear path in the establishing the frequencies of the required tests

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.1(2)(f)(ii)):
 - Annual evaluation of stack test results
 - NO_x tests are scheduled based on the margin of compliance of the most recent tests
- ✓ Recordkeeping as follows (Condition 4.1(2)(f)(ii)):
 - Stack tests performed
 - Records of stack test evaluation and margins of compliance achieved
 - Records of NO_x emission factors derived from the tests

- o Records of NO_x emissions

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Testing schedules based on the "margin of compliance approach" provide clear path in the establishing the frequencies of the required tests

Volatile Organic Material Emission

- ✓ Monitoring as follows (Condition 4.1(2)(d)(ii))
 - o Implementation of pollution prevention plan required by MACT
- ✓ Recordkeeping as follows (Condition 4.1(2)(d)(ii)):
 - o Records of VOM emissions
 - o Records of activities performed as part of the pollution prevention plan

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- Pollution prevention plan established by 40 CFR 63 Subpart YYYYY is designed to substantially reduce unwanted traces of organic material (solvents, oils, etc.) in the scrap metals processed.

Hazardous Air Pollutant (HAP - Lead) Emissions

- ✓ Monitoring as follows (Condition 4.1(2)(g)(ii))
 - o Implementation of pollution prevention plan required by MACT
- ✓ Recordkeeping as follows (Condition 4.1(2)(g)(ii)):
 - o Records of lead emissions
 - o Records of activities performed as part of the pollution prevention plan

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Monitoring is consistent with other sources in this source category.
- Pollution prevention plan established by 40 CFR 63 Subpart YYYYY is designed to substantially reduce unwanted traces of lead in the scrap metals processed.

Operationa/Production Requirements/Limits

- ✓ Monitoring as follows (Condition 4.1(2)(h)(ii))
 - o Records of steel production
- ✓ **Recordkeeping** as follows (Condition 4.1(2)(h)(ii)):
 - o Records of steel production

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category.
- Recordkeeping is the only monitoring tool available for verifying compliance with the actual steel production limit.

Work Practice Requirements

- ✓ Monitoring as follows (Condition 4.1(2)(i)(ii))
 - o Implementation of pollution prevention plan required by MACT
- ✓ **Recordkeeping** as follows (Condition 4.1(2)(i)(ii)):
 - o Records of activities performed as part of the pollution prevention plan

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category.
- Recordkeeping is the only monitoring tool available for verifying compliance with the pollution prevention plan required by MACT.

Malfunction/Breakdown Requirements

- ✓ Monitoring as follows (Condition 4.1(4)(a)(ii))
 - o Records of date, reason, duration, chronology and activities performed during malfunction/breakdown events
- ✓ **Recordkeeping** as follows (Condition 4.1(3)(a)(ii)):
 - o Records of date, reason, duration, chronology and activities performed during malfunction/breakdown events

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category.
- Recordkeeping is the only monitoring tool available for verifying malfunction/breakdown event.

Non-Applicability Discussion

Operation of EAF during air flow reduced mode of operation (2/3 out of 4 baghouse fans) is not considered malfunction/breakdown pursuant to Construction Permit 05020083. Stack tests for this mode of operation had been conducted 3/2008 and they fully demonstrated compliance with applicable emission standards.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

b. EAF Dust Handling System		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (40 CFR 60.272a(b))	Standard	See the Permit, Condition 4.2(2)(a)
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.2(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.2(2)(b)
PM (T1)	Limit	See the Permit, Condition 4.2(2)(b)
Production (T1)	Limit	See the Permit, Condition 4.2(2)(c)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.2(2)(a)(ii)):
 - o Monthly inspections of filters and transfer points
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.2(2)(a)(ii)):
 - o Records of inspections
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Inspections, opacity observations and affiliated records are the primary tools for opacity compliance verification

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.2(2)(b)(ii)):
 - o Monthly inspections of filters and transfer points
- ✓ Recordkeeping as follows (Condition 4.2(2)(b)(ii)):
 - o Records of inspections
 - o Records of material throughput/transfer
 - o PM emission factors and PM emissions w/supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Production

- ✓ Monitoring as follows (Condition 4.2(2)(c)(ii)):
 - o Records of material throughput/transfer
- ✓ Recordkeeping as follows (Condition 4.2(2)(c)(ii)):
 - o Records of material throughput/transfer
 - o Records of actual hours of operation

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category
- Recordkeeping are the only tool to verify compliance with hours of operation, material throughput or transfer limits

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

c. Ladle Metallurgy Facility (LMF)		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.3(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.3(2)(b)
PM (T1)	Limit	See the Permit, Condition 4.3(2)(b)
Operational and Production (T1)	Limit	See the Permit, Condition 4.3(2)(c)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.3(2)(a)(ii)):
 - o Monthly inspections of baghouse
 - o Maintenance activities, if required
 - o Daily opacity observations by using Method 9

- ✓ Recordkeeping as follows (Condition 4.3(2)(a)(ii)):
 - o Records of opacity observations
 - o Records of baghouse inspections and maintenance activities

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category
- Daily opacity observations are well above the frequencies of routine opacity readings for most of other similar sources
- Inspections, maintenance activities, opacity observations and affiliated records are the primary tools for opacity compliance verification

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.3(2)(b)(ii)):
 - o Monthly inspections of baghouse
 - o Maintenance activities, if required
 - o Operation in accordance with a CAM plan (daily opacity reafing)

- ✓ Recordkeeping as follows (Condition 4.3(2)(b)(ii)):
 - o Records of baghouse inspections and maintenance activities
 - o Records of PM emissions and emissions supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category
- Monitoring of opacity from the exhaust of the baghouse in combination of inspection/maintenance activities provide a good indication of the operational status and level of PM control of the affected baghouse

Production Requirements/Limits

- ✓ Monitoring as follows (Condition 4.3(2)(c)(ii))
 - o Hourly and annual rates of molten steel processed

- ✓ Recordkeeping as follows (Condition 4.3(2)(c)(ii)(A)):
 - o Records of hourly and annual rates of molten steel processed

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Recordkeeping is the only monitoring tool available to verify production limits

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

d. Casting Operations		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.4(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.4(2)(b)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.4(2)(a)(ii)(A)):
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.4(2)(a)(ii)(B)):
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.4(2)(b)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.4(2)(b)(ii)):
 - o PM emissions with supporting calculations
 - o Amount of steel processed
 - o Records of allowable emissions based on the actual process weight rates

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

e. 12" Mill Reheat Furnace		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.5(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.5(2)(b)
SO ₂ (35 IAC 214.301)	Standard	See the Permit, Condition 4.5(2)(d)
SO ₂ (T1)	Limit	See the Permit, Condition 4.5(2)(d)
NO _x (T1)	Limit	See the Permit, Condition 4.5(2)(c)
CO (T1)	Limit	See the Permit, Condition 4.5(2)(e)
VOM (T1)	Limit	See the Permit, Condition 4.5(2)(f)
Operational and Production (T1)	Limit	See the Permit, Condition 4.5(2)(g)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.5(2)(a)(ii)(A)):
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.5(2)(a)(ii)(B)):
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.5(2)(b)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.5(2)(b)(ii)):
 - o PM emissions with supporting calculations
 - o Amount of steel processed
 - o PM allowable emissions based on the actual process weight rates processed

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category
- Emissions are considered low due to birning of natural gas with much lower PM content in comparison with over fuels (coal and oil)

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.5(2)(d)(ii)):

- o Pipeline quality natural gas is used
- ✓ Recordkeeping as follows (Condition 4.5(2)(d)(ii)):
 - o Certification from the pipeline natural gas supplier that sulfur content is below 2000 ppm
 - o SO₂ emissions, with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Sulfur content in pipeline quality natural gas is much below 2000 ppm threshold
- Emissions do not vary significantly under normal operation and/or vary slowly with time

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.5(2)(e)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.5)(2)(e)(ii)):
 - o CO emissions, with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- CO emissions are not fluctuated significantly due to the use of natural gas as a fuel and relatively stable CO emissions/emission factor for reheat furnace

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.5(2)(c)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.5(2)(c)(ii)):
 - o NO_x emissions with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- NO_x emissions are not fluctuated significantly due to the use of natural gas as a fuel and relatively stable NO_x emissions/emission factor for reheat furnace

Volatile Organic Material Emission

- ✓ Monitoring as follows (Condition 4.5(2)(f)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.5(2)(f)(ii)):
 - o VOM emissions, with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category.
- VOM emissions are not fluctuated significantly due to the use of natural gas as a fuel and relatively stable VOM emissions/emission factor for reheat furnace

Operationa/Production Requirements/Limits

✓ Monitoring as follows (Condition 4.5(2)(g)(ii)):
o N/A

✓ **Recordkeeping** as follows (Condition 4.5(2)(g)(ii)):
o Records of natural gas usage

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Recordkeeping is the only monitoring tool available for verifying compliance with the natural gas usage limit

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

f. Miscellaneous Process Emission Units		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.6(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.6(2)(b)
SO ₂ (35 IAC 214.301)	Standard	See the Permit, Condition 4.6(2)(c)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.6(2)(a)(ii)(A)):
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.6(2)(a)(ii)(B)):
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.6(2)(b)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.6(2)(b)(ii)):
 - o PM emissions with supporting calculations
 - o Amount of materials processed
 - o Allowable PM emissions based on the actual process weight rates

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category
- Emissions are considered low due to burning in certain units of natural gas with much lower PM content in comparison with over fuels

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.6(2)(c)(ii)):
 - o Pipeline quality natural gas is used
- ✓ Recordkeeping as follows (Condition 4.5(2)(c)(ii)(C)):
 - o Certification from the pipeline natural gas supplier that sulfur content is below 2000 ppm

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category

- Sulfur content in pipeline quality natural gas is much below 2000 ppm threshold

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

g. EAF Storage Silos and Material Handling Operations		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.7(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.7(2)(b)
PM (T1)	Limit	See the Permit, Condition 4.7(2)(b)
Operational and Production (T1)	Limit	See the Permit, Condition 4.7(2)(c)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.7(2)(a)(ii)(A)):
 - o Monthly inspections of control devices
 - o Maintenance activities, if required
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.7(2)(a)(ii)):
 - o Records of inspections and maintenance performed
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.7(2)(b)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.7(2)(b)(ii)):
 - o PM emissions with supporting calculations
 - o Allowable PM emissions based on the actual process weight rates processed

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance
- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Source has not exhibited a history of non-compliance
- Monitoring is consistent with other sources in this source category

Operationa/Production Requirements/Limits

- ✓ Monitoring as follows (Condition 4.7(2)(c)(ii)):
 - o N/A
- ✓ **Recordkeeping** as follows (Condition 4.7(c)(g)(ii)):
 - o Individual storage silo throughput

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Recordkeeping is the only monitoring tool available for verifying compliance with material throughput limits

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

h. Cold Cleaning Degreasers		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
VOM (35 IAC 215.301)	Standard	See the Permit, Condition 4.8(2)(a)
Work Practice Requirements (35 IAC 215.182(a))	Standard	See the Permit, Condition 4.8(3)(a)

Volatile Organic Material Emission

- ✓ Monitoring as follows (Condition 4.8(2)(a)(ii)):
 - o N/A
- ✓ Recordkeeping as follows (Condition 4.8(2)(a)(ii)):
 - o VOM solvent usage for each degreaser
 - o Density of applied solvents
 - o Emissions of VOM from each degreaser, with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Conservative assumption is made that all VOM in applied solvents will be emitted

Operationa/Production Requirements/Limits

- ✓ Monitoring as follows (Condition 4.8(3)(a)(ii)):
 - o Monthly inspections of the degreasers and containers to ensure that all operating and equipment requirements are followed
- ✓ **Recordkeeping** as follows (Condition 4.8(3)(a)(ii)):
 - o Records of a vapor pressure and temperature of solvents being used
 - o Records of inspections performed

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Recordkeeping is the only monitoring tool available for verifying compliance with these requirements

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

i. Gasoline Storage Tank		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Operating Requirements (35 IAC 215.122(b))	Standard	See the Permit, Condition 4.9(2)(a)
Operating Requirements (40 CFR 63 Subpart CCCCCC)	Standard	See the Permit, Condition 4.9(2)(b)

Operating Requirements (35 IAC Part 215)

✓ Monitoring as follows (Condition 4.9(2)(a)(ii)):

- o Semi-annual inspections

✓ **Recordkeeping** as follows (Condition 4.9(2)(a)(ii)):

- o Records of conducted inspections

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category

Operating Requirements (40 CFR 63 Subpart CCCCCC)

✓ Monitoring as follows (Condition 4.9(2)(b)(ii)):

- o Semi-annual inspections

✓ **Recordkeeping** as follows (Condition 4.9(2)(b)(ii)):

- o Records of written operating procedures
- o Records of conducted inspections

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Inspections and recordkeeping are the only monitoring tool available for verifying compliance with operating requirements

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

j. Miscellaneous VOM Emitting Activities		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
VOM (35 IAC 215.301)	Standard	See the Permit, Condition 4.10(2)(a)

Volatile Organic Material Emission

- ✓ Monitoring as follows (Condition 4.10(2)(a)(ii)):
 - o N/A

- ✓ Recordkeeping as follows (Condition 4.10(2)(a)(ii)):
 - o Total VOM solvent usage
 - o Density of applied solvents
 - o VOM containing material usage for ladle refractory lining
 - o Emissions of VOM for each activity

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Conservative assumption is made that all VOM in applied solvents will be emitted

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

k. EAF #8 Main Cooling Tower		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity (35 IAC 212.123(a))	Standard	See the Permit, Condition 4.11(2)(a)
PM (35 IAC 212.321(a))	Standard	See the Permit, Condition 4.11(2)(b)
PM (T1)	Limit	See the Permit, Condition 4.11(2)(b)
Operational and Production (T1)	Limit	See the Permit, Condition 4.11(2)(c)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.11(2)(a)(ii)):
 - o Annual opacity observations by using Method 9
- ✓ Recordkeeping as follows (Condition 4.11(2)(a)(ii)):
 - o Records of opacity observations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Monitoring is consistent with other sources in this source category
- Opacity stays at the negligible level

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.11(2)(b)(ii)):
 - o Monthly inspections of equipment
- ✓ Recordkeeping as follows (Condition 4.11(2)(b)(ii)):
 - o Records of monthly inspections and maintenance performed
 - o Records of PM emissions, with supporting calculations

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Emissions do not vary significantly under normal operation and/or vary slowly with time
- Monitoring is consistent with other sources in this source category
- Regular inspections and maintenance prevent from exceedance of PM emission limits

Operational/Production Requirements/Limits

- ✓ Monitoring as follows (Condition 4.11(2)(c)(ii)):
 - o N/A
- ✓ **Recordkeeping** as follows (Condition 4.11(2)(c)(ii)):
 - o Records of cooling water throughput rates

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category
- Recordkeeping is the only monitoring tool available for verifying compliance with the cooling water throughput

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 9.

3.8 Insignificant Activities Discussion

There are no insignificant activities for the source subject to specific regulations which are obligated to comply with Sections 9.1(d) and Section 39.5 of the Act; Sections 165, 173, and 502 of the Clean Air Act; or any other applicable permit or registration requirements and therefore there are no periodic monitoring requirements that need to be separately addressed.

3.9 Prompt Reporting Discussion

Among other terms and conditions, CAAPP Permits contain reporting obligations to assure compliance with applicable requirements. These reporting obligations are generally four-fold. More specifically, each CAAPP Permit sets forth any reporting requirements specified by state or federal law or regulation, requires prompt reports of deviations from applicable requirements, requires reports of deviations from required monitoring and requires a report certifying the status of compliance with terms and conditions of the CAAPP Permit over the calendar year.

The number and frequency of reporting obligations in any CAAPP Permit is source-specific. That is, the reporting obligations are directly related to factors, including the number and type of emission units and applicable requirements, the complexity of the source and the compliance status. This four-fold approach to reporting is common to virtually all CAAPP Permits as described below. Moreover, this is the approach established in the Draft CAAPP Permit for this source.

Regulatory Reports

Many state and federal environmental regulations establish reporting obligations. These obligations vary from rule-to-rule and thus from CAAPP source to CAAPP source and from CAAPP Permit to CAAPP Permit. The variation is found in the report triggering events, reporting period, reporting frequency and reporting content. Regardless, the CAAPP makes clear that all reports established under applicable regulations shall be carried forward into the CAAPP Permit as stated in Section 39.5(7)(b) of the Illinois Environmental Protection Act. Generally, where sufficiently detailed to meet the exacting standards of the CAAPP, the regulatory reporting requirements are simply restated in the CAAPP Permit. Depending on the regulatory obligations, these regulatory reports may also constitute a deviation report as described below.

The Draft CAAPP Permit for this source would embody all regulatory reporting as promulgated under federal and state regulations under the Clean Air Act and the Illinois Environmental Protection Act. Depending on the frequency of the report, the regulatory report may also satisfy the prompt reporting obligations discussed below. These reports must be certified by a responsible official.

These reports are generally found in the reporting sections for each emission unit group. The various regulatory reporting requirements are summarized in the table at the end of this Reporting Section.

Deviation Reports (Prompt Reporting)

Section 39.5(7)(f)(ii) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require prompt reporting of deviations from the permit requirements.

Neither the CAAPP nor the federal rules upon which the CAAPP is based and was approved by USEPA define the term "prompt". Rather, 40 CFR Part 70.6(a)(3)(iii)(B) intended that the term have flexibility in application. The USEPA has acknowledged for purposes of administrative efficiency and clarity that the permitting authority (in this case, Illinois EPA) has the discretion to define "prompt" in relation to the degree and type of deviation likely to occur at a particular source. The Illinois EPA follows this approach and defines prompt reporting on a permit-by-permit basis. In instances where the underlying applicable requirement contains "prompt" reporting, the Illinois EPA typically incorporates the pre-established timeframe in the CAAPP permit (e.g. a NESHAP or NSPS deviation report). Where the underlying applicable requirement fails to explicitly set forth the timeframe for reporting deviations, the

Illinois EPA generally uses a timeframe of 30 days to define prompt reporting of deviations.

The Draft CAAPP Permit for this source would require prompt reporting as required by the Illinois Environmental Protection Act in the fashion described in this subsection. In addition, pursuant to Section 39.5(7)(f)(i) of the Illinois Environmental Protection Act, this Draft CAAPP Permit would also require the source to provide a summary of all deviations with the Semi-Annual Monitoring Report. These reports must be certified by a responsible official, and are generally found in the reporting sections for each emission unit group.

Semi-Annual Monitoring Reports

Section 39.5(7)(f)(i) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require a report relative to monitoring obligations as set forth in the permit. Depending upon the monitoring obligation at issue, the semi-annual monitoring report may also constitute a deviation report as previously discussed. This monitoring at issue includes instrumental and non-instrumental emissions monitoring, emissions analyses, and emissions testing established by state or federal laws or regulations or as established in the CAAPP Permit. This monitoring also includes recordkeeping. Each deviation from each monitoring requirement must be identified in the relevant semi-annual report. These reports provide a timely opportunity to assess for compliance patterns of concern. The semi-annual reports shall be submitted regardless of any deviation events. Reporting periods for semi-annual monitoring reports are January 1 through June 30 and July 1 through December 31 of each calendar year. Each semi-annual report is due within 30 days after the close of reporting period. The reports shall be certified by a responsible official. The Draft CAAPP Permit for this source would require such reports at Condition 3.5(b).

Annual Compliance Certifications

Section 39.5(7)(p)(v) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require a source to submit a certification of its compliance status with each term and condition of its CAAPP Permit. The reports afford a broad assessment of a CAAPP sources compliance status. The CAAPP requires that this report be submitted, regardless of compliance status, on an annual basis. Each CAAPP Permit requires this annual certification be submitted by May 1 of the year immediately following the calendar year reporting period. The report shall be certified by a responsible official. The Draft CAAPP Permit for this source would require such a report at Condition 2.6(a).

Prompt reporting of deviations is critical in order to have timely notice of deviations and the opportunity to respond, if necessary. The effectiveness of the permit depends upon, among other important elements, timely and accurate reporting. The Illinois EPA, USEPA, and the public rely on timely and accurate reports submitted by the source to measure compliance and to direct investigation and follow-up activities. Prompt reporting is evidence of the source's good faith in disclosing deviations and describing the steps taken to return to compliance and prevent similar incidents.

Any occurrence that results in an excursion from any emission limitation, operating condition, or work practice standard as specified in this Draft CAAPP Permit is a deviation subject to prompt reporting. Additionally, any failure to comply with any permit term or condition is a deviation of that permit term or condition and must be reported to the Illinois EPA as a permit deviation. The deviation may or may not be a violation of an emission limitation or standard. A permit deviation can exist even though other indicators of compliance suggest that no emissions

violation or exceedance has occurred. Reporting permit deviations does not necessarily result in enforcement action. The Illinois EPA has the discretion to take enforcement action for permit deviations that may or may not constitute a deviation from an emission limitation or standard or the like, as necessary and appropriate.

As a result, the Illinois EPA's approach to prompt reporting of deviations as discussed herein is consistent with the requirements of Section 39.5(7)(f)(ii) of the Illinois Environmental Protection Act as well as 40 CFR Part 70 and the CAA. This reporting arrangement is designed so that the source will appropriately notify the Illinois EPA of those events that might warrant individual attention.

3.10 Incorporation by Reference Discussion

Based on guidance found in White Paper 2 and past petition responses by the Administrator, it is recognized that Title V permit authorities may, within their discretion, incorporate plans by reference. As recognized in the *White Paper 2*, permit authorities can effectively streamline the contents of a Title V permit, avoiding the inevitable clutter of restated text and preventing unnecessary delays where, as here, permit issuance is subject to a decision deadline.³ However, it is also recognized that the benefits of incorporation of plans must be carefully balanced by a permit authority with its duty to issue permits in a way that is "clear and meaningful" to the Permittee and the public.⁴

The criteria that are mentioned in USEPA Administrator Petition Responses stress the importance of identifying, *with specificity*, the object of the incorporation.⁵ The Illinois EPA agrees that such emphasis is generally consistent with USEPA's pronouncements in previous guidance.

For each condition incorporating a plan, the Illinois EPA is also briefly describing the general manner in which the plan applies to the source. Identifying the nature of the source activity, the regulatory requirements or the nature of the equipment associated with the plan is a recommendation of the *White Paper 2*.⁶ The Illinois EPA has stopped short of enumerating the actual contents of a plan, as restating them in the permit would plainly defeat the purpose of incorporating the document by reference and be contrary to USEPA guidance on the subject.⁷

Plans may need to be revised from time to time, as occasionally required by circumstance or by underlying rule or permit requirement. Except where expressly precluded by the relevant rules, this Draft CAAPP Permit allows the Permittee to make future changes to a plan without undergoing formal permit revision procedures. This approach will allow flexibility to make required changes to a plan without separately applying for a revised permit and, similarly, will lessen the impacts that could result for the Illinois EPA if every change to a plan's contents required a permitting transaction.⁸ Changes to the incorporated plans during the permit term are automatically incorporated into the Draft CAAPP Permit unless the Illinois EPA expresses a written objection.

The Draft CAAPP Permit incorporates by reference the following plans: Fugitive Particulate Matter Operating Program and Episode Action Plan.⁹ These plans do not contain the type of information that is integral to assuring compliance with applicable requirements, including emissions limitations, compliance certification, testing monitoring, reporting or recordkeeping requirements, and is indistinguishable from other types of plans (such as operating and maintenance plans and SSM plans)¹⁰ that USEPA has historically concluded need not be incorporated into Title V permits.¹¹

3.11 Periodic Monitoring General Discussions

Pursuant to Section 504(c) of the Clean Air Act, a Title V permit must set forth monitoring requirements, commonly referred to as "Periodic Monitoring," to assure compliance with the terms and conditions of the permit. A general discussion of Periodic Monitoring is provided below. The Periodic Monitoring that is proposed for specific operations and emission units and at this source is discussed in Chapter III of this Statement of Basis. Chapter III provides a narrative discussion of and justification for the elements of Periodic Monitoring that would apply to the different emission units and types of emission units at the facility.

As a general matter, the required content of a CAAPP Permit with respect to such Periodic Monitoring is addressed in Section 39.5(7) of the Illinois Environmental Protection Act.¹² Section 39.5(7)(b) of the Illinois Environmental Protection Act¹³ provides that in a CAAPP Permit:

The Agency shall include among such conditions applicable monitoring, reporting, record keeping and compliance certification requirements, as authorized by paragraphs d, e, and f of this subsection, that the Agency deems necessary to assure compliance with the Clean Air Act, the regulations promulgated thereunder, this Act, and applicable Board regulations. When monitoring, reporting, record keeping and compliance certification requirements are specified within the Clean Air Act, regulations promulgated thereunder, this Act, or applicable regulations, such requirements shall be included within the CAAPP Permit.

Section 39.5(7)(d)(ii) of the Illinois Environmental Protection Act further provides that a CAAPP Permit shall:

Where the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of recordkeeping designed to serve as monitoring), require Periodic Monitoring sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit ...

Accordingly, the scope of the Periodic Monitoring that must be included in a CAAPP Permit is not restricted to monitoring requirements that were adopted through rulemaking or imposed through permitting. When applicable regulatory emission standards and control requirements or limits and control requirement in relevant Title 1 permits are not accompanied by compliance procedures, it is necessary for Monitoring for these standards, requirements or limits to be established in a CAAPP Permit.^{14, 15} Monitoring requirements must also be established when standards and control requirement are accompanied by compliance procedures but those procedures are not adequate to assure compliance with the applicable standards or requirements.^{16, 17} For this purpose, the requirements for Periodic Monitoring in a CAAPP Permit may include requirements for emission testing, emissions monitoring, operational monitoring, non-instrumental monitoring, and recordkeeping for each emission unit or group of similar units at a facility, as required by rule or permit, as appropriate or as needed to assure compliance with the applicable substantive requirements. Various combinations of monitoring measures will be appropriate for different emission units depending on their circumstances, including the substantive emission standards, limitations and control requirements to which they are subject.

What constitutes sufficient Periodic Monitoring for particular emission units, including the timing or frequency associated with such Monitoring requirements, must be determined by the permitting authority based on its knowledge, experience and judgment.¹⁸ For example, as Periodic Monitoring must collect representative data, the timing of Monitoring requirements need not match the averaging time or compliance period of the associated substantive requirements, as set by the relevant regulations

and permit provisions. The timing of the various requirements making up the Periodic Monitoring for an emission unit is something that must be considered when those Monitoring requirements are being established. For this purpose, Periodic Monitoring often consists of requirements that apply on a regular basis, such as routine recordkeeping for the operation of control devices or the implementation of the control practices for an emission unit. For certain units, this regular monitoring may entail "continuous" monitoring of emissions, opacity or key operating parameters of a process or its associated control equipment, with direct measurement and automatic recording of the selected parameter(s). As it is infeasible or impractical to require emissions monitoring for most emission units, instrumental monitoring is more commonly conducted for the operating parameters of an emission unit or its associated control equipment. Monitoring for operating parameter(s) serves to confirm proper operation of equipment, consistent with operation to comply with applicable emission standards and limits. In certain cases, an applicable rule may directly specify that a particular level of an operating parameter be maintained, consistent with the manner in which a unit was being operated during emission testing. Periodic Monitoring may also consist of requirements that apply on a periodic basis, such as inspections to verify the proper functioning of an emission unit and its associated controls.

The Periodic Monitoring for an emission unit may also include measures, such as emission testing, that would only be required once or only upon specific request by the Illinois EPA. These requirements would always be accompanied by Monitoring requirements would apply on a regular basis. When emission testing or other measure is only required upon request by the Illinois EPA, it is included as part of the Periodic Monitoring for an emission unit to facilitate a response by the Illinois EPA to circumstances that were not contemplated when Monitoring was being established, such as the handling of a new material or a new mode of operation. Such Monitoring would also serve to provide further verification of compliance, along with other potentially useful information. As emission testing provides a quantitative determination of compliance, it would also provide a determination of the margin of compliance with the applicable limit(s) and serve to confirm that the Monitoring required for an emission unit on a regular basis is reliable and appropriate. Such testing might also identify specific values of operating parameters of a unit or its associated control equipment that accompany compliance and can be relied upon as part of regular Monitoring.

There are a number of considerations or factors that are or may be relevant when evaluating the need to establish new monitoring requirements as part of the Periodic Monitoring for an emission unit. These factors include: (1) The nature of the emission unit or process and its emissions; (2) The variability in the operation and the emissions of the unit or process over time; (3) The use of add-on air pollution control equipment or other practices to control emissions and comply with the applicable substantive requirement(s); (4) The nature of that control equipment or those control practices and the potential for variability in their effectiveness; (5) The nature of the applicable substantive requirement(s) for which Periodic Monitoring is needed; (6) The nature of the compliance procedures that specifically accompany the applicable requirements; (7) The type of data that would already be available for the unit; (8) The effort needed to comply with the applicable requirements and the expected margin of compliance; (9) The likelihood of a violation of applicable requirements; (10) The nature of the Periodic Monitoring that may be readily implemented for the emission unit; (11) The extent to which such Periodic Monitoring would directly address the applicable requirements; (12) The nature of Periodic Monitoring commonly required for similar emission units at other facilities and in similar circumstances; (13) The interaction or relationship between the different measures in the Periodic Monitoring for an emission unit; and (14) The feasibility and reasonableness of requiring additional measures in the Periodic Monitoring for an emission unit in light of other relevant considerations.¹⁹

CHAPTER IV - CHANGES FROM PREVIOUSLY ISSUED CAAPP PERMITS

4.1 Major Changes Summary

This renewal CAAPP draft is presented in a new format. The new format is the result of recommendations by the USEPA, comments made by sources, and interactions with the public.

	<i>Previous CAAPP Permit Layout</i>	<i>New CAAPP Permit Layout</i>
Section 1	Source Identification	Source Information
Section 2	List Of Abbreviations/Acronyms	General Permit Requirements
Section 3	Insignificant Activities	Source Requirements
Section 4	Significant Emission Units	Emission Unit Requirements
Section 5	Overall Source Conditions	Title I Requirements
Section 6	Emission Control Programs	Insignificant Activities
Section 7	Unit Specific Conditions	Other Requirements
Section 8	General Permit Conditions	State Only Requirements
Section 9	Standard Permit Conditions	---
Section 10	Attachments	---
---	---	Attachments

4.2 Specific Permit Condition Changes

Section 3 - Condition 3.2(b): Episode Action Plan is incorporated by reference
 Condition 3.5(a): Prompt reporting was established

Section 4 -

Condition	Changes in the newly drafted CAAPP
4.1(1)	EAF #7 was removed from service
4.1(2)(b)(ii)	New applicable CAM requirements and CAM plan are identified
4.1(3)(a)	Newly established work practice requirements of 40 CFR Part 63 Subpart YYYYY "National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities"
4.1(5)(a)	Malfunction and Breakdown Requirements
4.1(6)(a)	Prompt reporting has been revised/expanded
4.1(6)(b)	New semi-annual reporting required by 40 CFR 63 Subpart YYYYY
4.2	EAF Dust Handling System (new subsection)
4.3(1)	LMF #1 was removed from service
4.3(2)(a)	Monthly inspectionas of baghouse are added along with visible emission observations by using Method 22
4.3(2)(b)(ii)	New applicable CAM requirements and CAM plan are identified
4.3(5)(a)	Prompt reporting has been revised/expanded
4.4(1)	Bloom caster was removed from service
4.4(5)	Prompt reporting has been revised/expanded
4.5(1)	12" Mill Reheat Furnace was separated from other fuel combustion process emission units
4.5(2)(c)	New SO ₂ emission limits(T1)
4.5(2)(d)	New NO _x emission limits (T1)
4.5(2)(e)	New CO emission limits (T1)
4.5(2)(f)	New VOM emission limits (T1)
4.5(2)(g)	New production limits (T1)
4.5(5)	Prompt reporting has been revised/expanded
4.6(1)	Miscellaneous Fuel Combustion Process Emission Units have been separated from reheat furnace
4.6(5)	Prompt reporting has been revised/expanded
4.7(1)	EAF Storage Silos and Naterial Handling Operations are

	separated from EAF Dust Handling (Subsection 4.2)
4.7(5)	Prompt reporting has been revised/expanded
4.8(1)	Cold cleaning degreasing stations have been decreased from 30 to 15
4.8(5)	Prompt reporting has been revised/expanded
4.9(2)(a)	Semi-annual inspections of the gasoline tank components have been added
4.9(2)(b)	Operating requirements of 40 CFR 63 Subpart CCCCCC have been added
4.9(5)	Prompt reporting has been revised/expanded
4.10	Section for Miscellaneous VOM Emitting Activities have been added

Section 7 - Condition 7.3: CAM Requirements

Endnotes

¹ The federal PSD program, 40 CFR 52.21, applies in Illinois. The Illinois EPA administers PSD permitting for major projects in Illinois pursuant to a delegation agreement with USEPA.

² Illinois has a state nonattainment NSR program, pursuant to state rules, Major Stationary Sources Construction and Modification ("MSSCM"), 35 IAC Part 203, which have been approved by USEPA as part of the State Implementation Plan for Illinois.

³ Among other things, USEPA observed that the stream-lining benefits can consist of "reduced cost and administrative complexity, and continued compliance flexibility...". *White Paper 2*, page 41.

⁴ See, *In the Matter of Tesoro Refining and Marketing*, Petition No. IX-2004-6, Order Denying in Part and Granting in Part Petition for Objection to Permit, at page 8 (March 15, 2005); see also, *White Paper 2* at page 39 ("reference must be detailed enough that the manner in which any referenced materials applies to a facility is clear and is not reasonably subject to misinterpretation").

⁵ The Order provides that permit authorities must ensure the following: "(1) referenced documents be specifically identified; (2) descriptive information such as the title or number of the document and the date of the document be included so that there is no ambiguity as to which version of the document is being referenced; and (3) citations, cross references, and incorporations by reference are detailed enough that the manner in which any referenced material applies to a facility is clear and is not reasonably subject to misinterpretation." See, *Petition Response* at page 43, citing *White Paper 2* at page 37.

⁶ See, *White Paper 2* at page 39.

⁷ Nothing in USEPA guidance, including the *White Paper 2* or previous orders responding to public petitions, supports the notion that permit authorities incorporating a document by reference must also restate contents of a given plan in the body of the Title V permit. Such an interpretation contradicts USEPA recognition that permit authorities need not restate or recite an incorporated document so long as the document is sufficiently described. *White Paper 2* at page 39; see also, *In the matter of Consolidated Edison Co. of New York, Inc., 74th St. Station*, Petition No. II-2001-02, Order Granting in Part and Denying in Part Petition for Objection to Permit at page 16 (February 19, 2003).

⁸ This approach is consistent with USEPA guidance, which has previously embraced a similar approach to certain SSM plans. See, *Letter and Enclosures*, dated May 20, 1999, from John Seitz, Director of Office of Air Quality Planning and Standards, to Robert Hodanbosi and Charles Lagges, STAPPA/ALAPCO, pages 9-10 of Enclosure B.

⁹ Each incorporated plan addressed by this Section of the Statement of Basis is part of the source's permit file. As such, these plans are available to any person interested in viewing the contents of a given plan may do so at the public repository during the comment period or, alternatively, may request a copy of the same from the Illinois EPA under the Freedom of Information Act. See also 71 FR 20447.

¹⁰ See, *Letter and Enclosures*, dated May 20, 1999, from John Seitz, Director of Office of Air Quality Planning and Standards, to Robert Hodanbosi and Charles Lagges, STAPPA/ALAPCO, page 9 of Enclosure B.

¹¹ In the most recent final rulemaking for 40 CFR 63, Subpart A - General Provisions, the US EPA dealt with the need for SSM Plans to be available, the level of detail in an SSM necessary for purposes including permitting and whether a SSM Plan is tantamount to a compliance schedule necessary for incorporation into a Title V permit. USEPA concluded that SSM Plans need not be mandatorily available for public access but rather must be made available upon request by the permitting authority. In addition, these plans do not contain enforceable requirements necessary to demonstrate compliance with the general duty clause at 63.6(e)(1)(i) and are therefore not applicable requirements. Lastly, SSM Plans are not of the same ilk as a compliance schedule required in 502(b)(8) or 503(c) of the CAA or 40 CFR 70.5(c)(8) as the criteria for such documents are clearly distinguishable for each. See, FR Vol. 71, No. 76/Thursday, April 20, 2006 (pg. 20447 and 20449 - 20451); FR Vol. 70, No. 145/Friday, July 29, 2005 (pg. 43993 - 43994); FR Vol. 67, No. 236/Monday December 9, 2002 (pg. 72880). Therefore, the Illinois EPA has concluded that these plans are not required to be incorporated by reference or any of the content of such plans need be incorporated into the CAAPP permit.

¹² The provisions of the Act for Periodic Monitoring in CAAPP permits reflect parallel requirements in the federal guidelines for State Operating Permit Programs, 40 CFR 70.6(a)(3)(i)(A), (a)(3)(i)(B), and (c)(1).

¹³ Section 39.5(7)(p)(i) of the Act also provides that a CAAPP permit shall contain "Compliance certification, testing, monitoring, reporting and record keeping requirements sufficient to assure compliance with the terms and conditions of the permit."

¹⁴ The classic example of regulatory standards for which Periodic Monitoring requirements must be established in a CAAPP permit are state emission standards that pre-date the 1990 Clean Air Act Amendments that were adopted without any associated compliance procedures. Periodic Monitoring must also be established in a CAAPP permit when standards and limits are accompanied by compliance procedures but those procedures are determined to be inadequate to assure compliance with the applicable standards or limits.

¹⁵ Another example of emission standards for which requirements must be established as part of Periodic Monitoring is certain NSPS standards that require initial performance testing but do not require periodic testing or other measures to address compliance with the applicable limits on a continuing basis.

¹⁶ The need to establish Monitoring requirements as part of Periodic Monitoring when existing compliance procedures are determined to be inadequate, as well as when they are absent, was confirmed by the federal appeals court in *Sierra Club v. Environmental Protection Agency*, 536 F.3d 673, 383 U.S. App. D.C. 109.

¹⁷ The need to establish Monitoring requirements as part of Periodic Monitoring is also confirmed in USEPA's Petition Response. USEPA explains that "...if there is periodic monitoring in the applicable requirements, but that monitoring is not sufficient to assure compliance with permit terms and conditions, permitting authorities must supplement monitoring to assure such compliance." Petition Response, page 6.

¹⁸ The test for the adequacy of "Periodic Monitoring" is a context-specific determination, particularly whether the provisions in a Title V permit reasonably address compliance with relevant substantive permit conditions. 40 CFR 70.6(c)(1); see also 40 CFR 70.6(a)(3)(i)(B); see also, *In the Matter of CITGO Refinery and Chemicals Company L.P.*, Petition VI-2007-01 (May 28, 2009); see also, *In the Matter*

of Waste Management of LA. L.L.C. Woodside Sanitary Landfill & Recycling Center, Walker, Livingston Parish, Louisiana, Petition VI-2009-01 (May 27, 2010); see also, In the Matter of Wisconsin Public Service Corporation's JP Pulliam Power Plant, Petition V-2009-01 (June 28, 2010).

¹⁹ A number of these factors are specifically listed by USEPA in its Petition Response. USEPA also observes that the specific factors that it identifies in its Petition Response with respect to Periodic Monitoring provide "...the permitting authority with a starting point for its analysis of the adequacy of the monitoring; the permitting authority also may consider other site-specific factors." Petition Response, page 7.